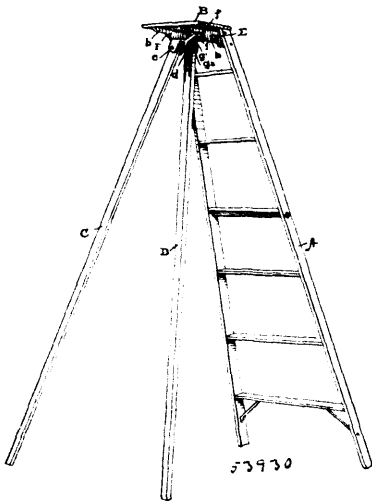


ingress of air while permitting egress of the gaseous products of the arc, an arc-regulating device, and a small auxiliary resistance in series with the arc, for the purpose described. 3rd. An arc lamp having a transparent or translucent envelope around the arc provided with a contracted opening through which the positive electrode may feed, a gas-check to obstruct ingress of air while permitting egress of the gaseous products of the arc, an arc regulating device in series with the arc, and an auxiliary resistance so proportioned to the arc resistance that the latter will absorb the larger part of the drop. 4th. An arc lamp having its arc surrounded by a closed envelope having a contracted opening through which the positive electrode feeds, and a dead-air chamber around the carbon where it passes through said opening. 5th. An arc lamp having its arc surrounded by a closed envelope having a contracted opening through which the positive electrode feeds, a dead-air chamber surrounding the carbon where it passes through said opening, and openings formed in the wall of said chamber next the carbon. 6th. An arc lamp having a transparent or translucent envelope around the arc flanged at the bottom and provided with a clamp embracing the flange and detachably secured to the envelope support. 7th. An arc lamp having a transparent or translucent envelope around the arc flanged at the bottom and provided with a clamp embracing the flange and adapted to screw over a support for the envelope, the clamp being movable upon the envelope but inseparable therefrom. 8th. An arc lamp having a transparent or translucent envelope around the arc flanged at the bottom, a washer of heat resisting packing material in the support, and a clamp for firmly securing the envelope to the support, to make a gas-tight joint.

No. 53,930. Step-Ladder. (Echelle à marches.)



Frank White, Pomona, California, U.S.A., 2nd November, 1896; 6 years. (Filed 7th May, 1896.)

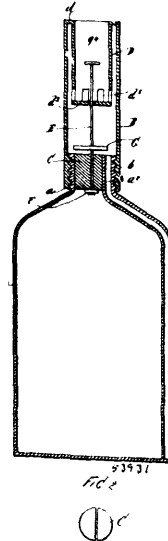
Claim.—1st. A step-ladder having independently movable legs C and D, connected at their upper ends to the ladder, one behind the other, in the central transverse plane of the ladder, substantially as and for the purpose hereinbefore set forth. 2nd. A step-ladder having legs C and D, the upper ends of which lie one behind the other in the central transverse plane of the ladder, and a connection for said upper ends with the ladder, whereby the legs are independently and freely movable in all directions, substantially as and for the purpose hereinbefore set forth. 3rd. A step-ladder having legs C and D, the upper ends of which lie one behind the other in the central transverse plane of the ladder, and a connection for said upper ends with the ladder, whereby the legs are independently and freely movable in all directions, consisting of the horizontal cross shaft E, and the head-plate F, and G, having eyes pivoted upon said horizontal cross-shaft, and depending sockets in which the upper ends of the legs are pivoted by horizontal bolts c, d, and sockets lying one behind the other in the central transverse plane of the ladder, substantially as and for the purpose hereinbefore set forth.

No. 53,931. Bottle. (Bouteille.)

Elizabeth Ann Saunders, James Store, Virginia, U.S.A., 2nd November, 1896; 6 years. (Filed 15th May, 1896.)

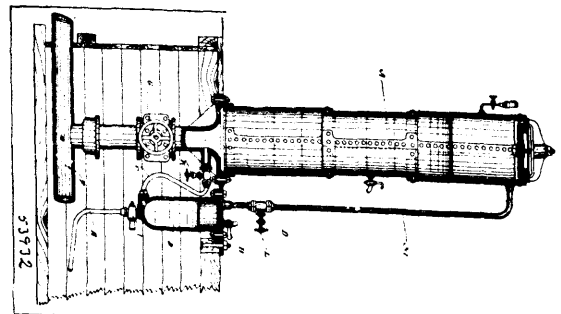
Claim.—1st. A bottle or other vessel, provided with a neck and a passage or chamber formed in the side wall thereof, which extends upwardly through one side of the neck, said neck adapted to be closed by a plug or stopper, and a tubular attachment secured thereto, and provided at its upper end with a supplemental tube which is arranged therein, and connected therewith, at the upper end, said supplemental tube being closed at its lower end and perforated, and a rod which is adapted to be passed through the bottom of the supplemental tube and connected with the plug or stopper,

substantially as described. 2nd. A bottle or other vessel, provided with a neck and a passage or chamber formed in the side wall



thereof, which extends upwardly through one side of the neck, said neck being adapted to be closed by a plug or stopper, and a tubular attachment secured thereto, and provided at its upper end with a supplemental tube which is arranged therein, and connected therewith, at the upper end, said supplemental tube being closed at its lower end and perforated, and a rod which passes through the bottom of the supplemental tube and through said plug or stopper, and on which is mounted a disc or plate, substantially as shown and described. 3rd. A bottle or other vessel, provided with a neck, and a passage or chamber formed in the side wall thereof which extends upwardly through one side of the neck, said neck being adapted to be closed by a plug or stopper, and a tubular attachment secured thereto and provided at its end with a supplemental tube which is arranged therein, and connected therewith, at the upper end, said supplemental tube being closed at its lower end and perforated, and a rod which passes through the bottoms of the supplemental tube and through said plug or stopper, and on which is mounted a disc or plate, and said plug or stopper being divided vertically, substantially as shown and described. 4th. A bottle or other vessel provided with a neck, and a passage or vertical chamber formed in one of the sides thereof, which opens upwardly through one side of the neck, said neck being adapted to be closed by a plug or stopper, substantially as shown and described.

No. 53,932. Device for Charging Air-Chambers. (Appareil pour charger les chambres à air.)



Marie Joseph Etienne Ludovic de La Vallée Poussin, Montreal, Quebec, Canada, 3rd November, 1896; 6 years. (Filed 1st August, 1896.)

Claim.—In an air charging device for air-chambers composed of an auxiliary vessel B which has both its top and bottom in communication with the same parts of the air-chamber, means for closing these communications, means for putting the auxiliary chamber in communication with the atmosphere, means for draining this auxiliary chamber, and means for closing off the air-chamber, substantially as described and for the purpose set forth.

No. 53,933. Vice. (Etau.)

Alfred Richmond, Hamilton, Ontario, Canada, 3rd November, 1896; 6 years. (Filed 19th August, 1896.)

Claim.—1st. In a vice a rigid rear jaw provided with upper and lower flanged nuts inserted and secured therein and a movable front